BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RCC culvert & U Shape drain for secondary SWD between Settyhalli & Chikkasandra village in Settyhalli Ward No.12

BBMP/2016-17/FP/WORK_INDENT22272

Operating Schedule B

Sl. No	Item Name	Unit	Estimate Quantity	Rates quoted by M/s KVK Constructions	
				Unit rate (in Rs.)	In words
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications, iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202 KSRRB M200- 15.2. -do- B. Rubble stone masonry in cement mortar as directed by the Engineer in charge of the work.	Cum	7.20	200.00	Rupees Two Hundred Only
2	KSRRB M200-21.2 Dismantling of Existing Structures like Culverts,Bridges,Retaining Walls and other structures comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding where ever necessary,sorting the dismantled material,disposal of unserviceable material and stacking the seviceable material with all lifts complete as per specifications. Removal of all types of hume pipes and atacking including earthwork and dismantling of masonry works-B. Above 600 mm to 900 mm Dia as directed by the Engineer in charge of the work.	Rmt	7.50	190.00	Rupees One Hundred Ninety Only
3	Excavation of removal of silt mixed with sand, human excreta, garbage in slussy condition from Storm water drain in Bangalore City including disposing off the same as directed including cost of machinery labour, fuel etc., complete (By Mechanical Means) with all lead and lifts for disposing off to designated site.	Cum	720.00	240.00	Rupees Two Hundred Fourty Only
4	Diversion of water course by providing coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc... complete with all leads and lifts as directed by the Engineer in charge of the work.	Cum	87.57	240.00	Rupees Two Hundred Fourty Only
5	Excavation in marshy soil upto 3m depth for foundation of structures as per drawing and technical specifications, removing the excavated stuf to a lead of 15m, including dewatering, shoring, refilling trenches in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications. V. Marshy Soil - B Mechanical means as directed by the Engineer in charge of the work.	Cum	349.68	90.00	Rupees Ninety Only
6	KSRRB M2100-2.1 Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specifications,including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications in Ordinary soil - B. Machanical Means (i) Depth upto 3m MORTH Specification No. 304 as directed by the Engineer in charge of the work.	Cum	829.23	30.00	Rupees Thirty Only

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Sl. No	Item Name	Unit	Estimate Quantity	Rates quoted by M/s KVK Constructions	
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7	Providing and filling in foundation with Granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming,watering, including cost of all materials and labour with all lead and lift.complete as per specifications with all leads and lifts as directed by the Engineer in charge of the work.	Cum	271.51	1900.00	Rupees One Thousand Nine Hundred Only
8	KSRB 2.8 : Providing and Filling in foundation with granite I trap broken metal 100mm (available boulders obtained from dismantaling of masonary including charges for breaking into pieces) and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.specification. No. KBS with all leads and lifts as directed by the Engineer in charge of the work.	Cum	4.32	1100.00	Rupees One Thousand One Hundred Only
9	KSRRB M2100-10 - Plain Cement Concrete M10 with OPC cement @ 220 kgs, with crushed 40mm and down size graded metal coarse aggregates @0.84 Cum and fine aggregates @ 0.56Cum, in foundation mechanically mixed placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No.2100 with all leads and lifts as directed by the Engineer in charge of the work.	Cum	127.02	5800.00	Rupees Five Thousand Eight Hundred Only
10	KSRRB M 2100-17.2 : Plain/reinforcement Cement Concrete design mix M25 with OPC cement @340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @0.47Cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, open foundation complete as per Drawing and Technical Specification with Batching plant, transit mixer and concrete pump. MORTH Specification No. 1500, 1700 & 2100 with all leads and lifts as directed by the Engineer in charge of the work.	Cum	225.75	6200.00	Rupees Six Thousand Two Hundred Only
11	KSRRB M 2200-5.12 : Design mix M25 sub structure with OPC cement @340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7Cum and fine aggregates @0.47Cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 upto 5 mtrs. Upto 5 Mtrs height with all leads and lifts as directed by the Engineer in charge of the work.	Cum	235.17	7000.00	Rupees Seven Thousand Only
12	KSRRB M 2100-17.2 : Plain/reinforcement Cement Concrete design mix M35 with OPC cement @390 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68Cum and fine aggregates @0.45Cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, open foundation complete as per Drawing and Technical Specification with BAtching plant, transit mixer and concrete pump. MORTH Specification No. 1500, 1700 & 2100 with all leads and lifts as directed by the Engineer in charge of the work.	Cum	9.98	6599.00	Rupees Six Thousand Five Hundred NinetyNine Only
13	KSRRB M 2200-5.12 : Design mix M35 sub structure with OPC cement @390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68Cum and fine aggregates @0.45Cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 upto 5 mtrs. Upto 5 Mtrs height with all leads and lifts as directed by the Engineer in charge of the work.	Cum	10.80	7430.00	Rupees Seven Thousand Four Hundred Thirty Only
14	KSRRB M2300-8.1. Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D. RCC / PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II : Using Batching Plant, Transit Mixer & Concrete Pump MORTH Specification No. 1500,1600 & 1700 with all leads and lifts as directed by the Engineer in charge of the work.	Cum	10.13	7500.00	Rupees Seven Thousand Five Hundred Only

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Sl. No	Item Name	Unit	Estimate Quantity	Rates quoted by M/s KVK Constructions	
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15	Supplying,fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and technical specifications complete as per specifications. TMT Bars Fe 500 with all leads and lifts as directed by the Engineer in charge of the work.	MT	43.77	48000.00	Rupees FourtyEight Thousand Only
16	Supplying,fitting and placing TMT bar reinforcement in super-structure complete as per drawing and technical specifications complete as per specifications. TMT Bars Fe 500 with all leads and lifts as directed by the Engineer in charge of the work.	MT	1.11	48000.00	Rupees FourtyEight Thousand Only
17	PVC pipes 2.50kg/sqm 110mm outer dia as directed by the Engineer in charge of the work.	Rmt	126.00	170.00	Rupees One Hundred Seventy Only
18	KSRRB M2200.9. Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2 of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification complete as per specifications with all lead and lifts, etc., after breaking of clods complete as per specifications and as per direction of Engineer in-charge.	Cum	189.00	900.00	Rupees Nine Hundred Only
19	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all leads and lifts as directed by the Engineer in charge of the work.. including cost of all labour complete as per specifications,.	Cum	189.00	110.00	Rupees One Hundred Ten Only
20	KSRRB M100-1 Collecting, Conveying and disposal of surplus/excavated earth including Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum to designated dumping site disposing off with all leads and lifts as directed by the Engineer in charge of the work.	Cum	1370.79	90.00	Rupees Ninety Only
21	KSRB 4-1.5 : Providing and laying in position plain Cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 with all leads and lifts as directed by the Engineer in charge of the work.	Cum	16.28	4900.00	Rupees Four Thousand Nine Hundred Only
22	Supplying and fixing MS. Rectangular poles made out of 2 equal angles of 65x65~6m m welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 crns. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead and lift and as per the directions of the Engineer-in-charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting. (excluding cost of earth work and concrete)	Rmt	402.00	700.00	Rupees Seven Hundred Only
23	Providing and fixing MS block pipe of 38mm dia of heavy guage of 14 including removing the bends, cutting the pipes and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S block pipe including cost of all materials wastage in cutting and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint	Rmt	2010.00	232.00	Rupees Two Hundred ThirtyTwo Only

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Sl. No	Item Name	Unit	Estimate Quantity	Rates quoted by M/s KVK Constructions	
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24	Providing chain link fencing 50 mm size of 8 gauge properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint.	Sqm	1005.00	510.00	Rupees Five Hundred Ten Only
25	Providing and fixing 50mm diameter and 750mm long perforated GI pressure relief pipe with one end closed by perforated GL plate and other end provided with alluminium lid hinged to pipe including cost of all materials,labour, drilling 8mm dia holes etc., complete with all leads and lifts as directed by the Engineer in charge of the work.	Nos	20.10	350.00	Rupees Three Hundred Fifty Only
26	WRD: Providing and fixing 20mm thick 150mm depth tarfelt expasion joint filler board for cement concrete lining of canal including cost of all materils, labour etc,. Complete with all leads and lifts as directed by the Engineer in charge of the work.	Rm	192.40	80.00	Rupees Eighty Only

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